

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
20 April 2006 (20.04.2006)

PCT

(10) International Publication Number  
**WO 2006/041468 A1**

(51) International Patent Classification<sup>7</sup>: **H01H 19/62**

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/US2004/032797

(22) International Filing Date: 5 October 2004 (05.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **EMRISE CORPORATION** [US/US]; 9485 Haven Avenue, Suite 100, Rancho Cucamonga, CA 91730 (US).

(71) Applicant and

(72) Inventor: **HORTON, Donald, L.** [US/US]; 8134 Glade Avenue, Canoga Park, CA 91304 (US).

(74) Agents: **FISH, Robert, D.** et al.; Rutan & Tucker, 14th Floor, 611 Anton Boulevard, Costa Mesa, CA 92626-1931 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

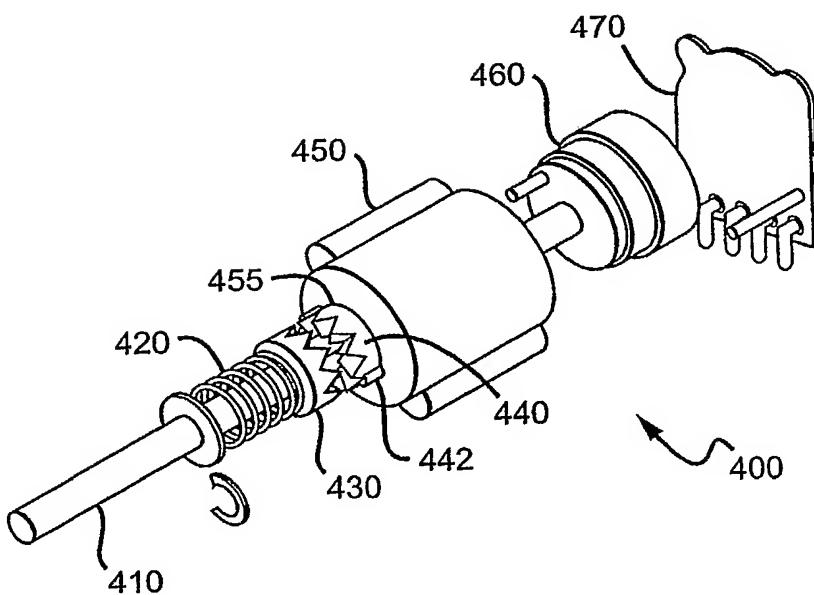
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ROTARY CIRCUIT SELECTION DEVICE WITH CROWN DETENT



(57) Abstract: A rotary circuit selection device (400) having a driving cam (430) and an operating cam (440), each having a series of alternating peaks (442) and valleys (455). A biasing mechanism (420) biases the driving cam toward the stationary cam such that the peaks of one cam are received by the valleys of the other cam and vice versa. Selection of an alternative circuit includes rotating and translating the driving cam in relation to stationary cam.